TEJUS
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Project	**Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03**
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	**M/s Tejus Consultants**
Contractor	**Shri Uday Shetty**

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28))

Location:	Date:	16/08/16
Representing chainage	606-782	
Layer no. or level	GSB layer	
Depth of hole		
Field density:	1	2
Wt. of wet material from hole (Ww) gms.	5839	5649
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9940	10030
Wt. of sand in cone (w3) gms.	870	870
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3190	3100
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.42	2.41
Moisture meter reading(moisture content)	9.10	8.70
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.21	2.21
MDD	2.22	2.22
OMC	9.50%	9.50%
% compaction obtained	99.76	99.68
% compaction required	98%	98%

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Bangalore

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Name of Work : Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03

Client : BRUHAT BANGALORE MAHANAGARA PALIKE

Consultant : M/s Tejus Consultants

Contractor : Shri Uday shetty

Date of Testing : 16/8/2016

Type of Mix : GSB

Sample I/D : GSB1

GRADATION FOR GSB
(As per MORT&H 400-2,Grading-1)

Sample Location: At plant

Date of Sampling: 16/8/2016

Date of testing: 16/8/2016

Type of material & Purpose: GSB

Oven Dry Wt.(gms): 10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
75	0	0	0.00	100.00	100.00
26.5	2756	2756	27.56	72.44	55-75
4.75	5531	8287	82.87	17.13	10-30
0.075	1476	9763	97.63	2.37	0-10
Pan	237.0				
Total	10000.0				

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Project	Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Shri Uday Shetty

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28))

Location:	Date:	23/08/16
Representing chainage	782-1102	
Layer no. or level	GSB layer	
Depth of hole		
Field density:	1	2
Wt. of wet material from hole (Ww) gms.	5287	5495
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	10130	10120
Wt. of sand in cone (w3) gms.	870	870
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3000	3010
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.33	2.41
Moisture meter reading(moisture content)	9.00	9.50
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.13	2.20
MDD	2.22	2.22
OMC	9.50%	9.50%
% compaction obtained	96.14	99.13
% compaction required	98%	98%

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Name of Work : Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03

Client :

BRUHAT BANGALORE MAHANAGARA PALIKE

Consultant : M/s Tejus Consultants

Contractor : Shri Uday shetty

Date of Testing : 23/08/16

Type of Mix : GSB

Sample.I/D : GSB1

GRADATION FOR GSB
(As per MORT&H 400-2,Grading-1)

Sample Location: At plant

Date of Sampling: 23/08/16

Date of testing: 23/08/16

Type of material & Purpose: GSB

Oven Dry Wt.(gms): 10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
75	0	0	0.00	100.00	100.00
26.5	2863	2863	28.63	71.37	55-75
4.75	5483	8346	83.46	16.54	10-30
0.075	1536	9882	98.82	1.18	0-10
Pan	118.0				
Total	10000.0				

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Project	Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03	
Client	BRUHAT BANGALORE MAHANAGARA	
Consultant	M/s Tejus Consultants	
Contractor	Shri Uday Shetty	
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28))		
Location:		**Date:27/08/16**
Representing chainage	606-782	
Layer no. or level	WMM I layer	
Depth of hole		
Field density:	1	2
Wt. of wet material from hole (Ww) gms.	6233	6611
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9753	9514
Wt. of sand in cone (w3) gms.	870	870
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3376	3612
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.44	2.42
Moisture meter reading(moisture content)	8.00	6.50
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.26	2.27
MDD	2.30	2.30
OMC	6.30%	6.30%
% compaction obtained	98.11	98.63
% compaction required	98%	98%

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Name of Work : Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03

Client :

BRUHAT BANGALORE MAHANAGARA PALIKE

Consultant : M/s Tejus Consultants

Contractor : Shri Uday shetty

Date of Testing : 27/08/16

Type of Mix : WMM

Sample I/D : WMM3

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location: At plant

Date of Sampling: 27/08/16

Date of testing: 27/08/16

Type of material & Purpose: WMM

Oven Dry Wt.(gms): 10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	100	100	1.00	99.00	95-100
22.4	2910	3010	30.10	69.90	60-80
11.2	2560	5570	55.70	44.30	40-60
4.75	980.0	6550	65.50	34.50	25-40
2.36	1030.0	7580	75.80	24.20	15-30
0.6	580.0	8160	81.60	18.40	8.0-22.0
0.075	1240.0	9400	94.00	6.00	0-8
Pan	600.0				
Total	10000.0				

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Name of Work : Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03

Client :

BRUHAT BANGALORE MAHANAGARA PALIKE

Consultant : M/s Tejus Consultants

Contractor : Shri Uday shetty

Date of Testing : 29/08/16

Type of Mix : GSB

Sample I/D : GSB1

GRADATION FOR GSB
(As per MORT&H 400-2,Grading-1)

Sample Location: At plant

Date of Sampling: 29/08/16

Date of testing: 29/08/16

Type of material & Purpose: GSB

Oven Dry Wt.(gms): 10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
75	0	0	0.00	100.00	100.00
26.5	2746	2746	27.46	72.54	55-75
4.75	5561	8307	83.07	16.93	10-30
0.075	1452	9759	97.59	2.41	0-10
Pan	241.0				
Total	10000.0				

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Project	**Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03**
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	**M/s Tejus Consultants**
Contractor	**Shri Uday Shetty**

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28))

Location:	Date:	29/08/16
Representing chainage	1102-1492	
Layer no. or level	GSB layer	
Depth of hole		
Field density:	1	2
Wt. of wet material from hole (Ww) gms.	5965	5686
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9872	9958
Wt. of sand in cone (w3) gms.	870	870
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3193	3165
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.47	2.37
Moisture meter reading(moisture content)	9.10	8.70
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.26	2.18
MDD	2.22	2.22
OMC .	9.50%	9.50%
% compaction obtained	101.81	98.27
% compaction required	98%	98%

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Name of Work : Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03

Client : BRUHAT BANGALORE MAHANAGARA PALIKE

Consultant : M/s Tejus Consultants

Contractor : Shri Uday shetty

Date of Testing : 1/9/2016

Type of Mix : WMM

Sample I/D : WMM A

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location: At plant

Date of Sampling: 1/9/2016

Date of testing: 1/9/2016

Type of material & Purpose: WMM

Oven Dry Wt.(gms): 10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	113	113	1.13	98.87	95-100
22.4	2365	2478	24.78	75.22	60-80
11.2	2695	5173	51.73	48.27	40-60
4.75	1369.0	6542	65.42	34.58	25-40
2.36	869.0	7411	74.11	25.89	15-30
0.6	564.0	7975	79.75	20.25	8.0-22.0
0.075	1635.0	9610	96.10	3.90	0-8
Pan	390.0				
Total	10000.0				

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Name of Work : Widening of Shiva Mandira Temple Road from Major Sandeep Unnikrishnan Road to Yelahanka Industrial Area in ward No.03

Client :
BRUHAT BANGALORE MAHANAGARA PALIKE

Consultant : M/s Tejus Consultants

Contractor : Shri Uday shetty

Date of Testing : 3/9/2016

Type of Mix : WMM

Sample I/D : WMM4

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location: At plant

Date of Sampling: 3/9/2016

Date of testing: 3/9/2016

Type of material & Purpose: WMM

Oven Dry Wt.(gms): 10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	106	106	1.06	98.94	95-100
22.4	2856	2962	29.62	70.38	60-80
11.2	2569	5531	55.31	44.69	40-60
4.75	1043.0	6574	65.74	34.26	25-40
2.36	965.0	7539	75.39	24.61	15-30
0.6	632.0	8171	81.71	18.29	8.0-22.0
0.075	1265.0	9436	94.36	5.64	0-8
Pan	564.0				
Total	10000.0				

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